



NOAA Restoration Center

Marsh Creek Reach Assessment & Dam Removal

Project Description

The objective of this project is to complete necessary concept development and engineering design work to remove/modify the lower Marsh Creek dam. The long-term goal of this project is to restore access to 7 miles of habitat for Marsh Creek's fall-run Central Valley Chinook salmon and possibly steelhead trout.

Project Nickname Marsh Creek/AR-2002/AR-2004
Location Brentwood, Contra Costa County, CA, SWR
Program Community-based Restoration **Congressional District** CA 11
Lat, Long Coordinates -121.6874, 37.9581 **Land Ownership** Public
Implementation Start Date 01-JUL-02 **Implementation End Date**
River Basin San Joaquin River **HUC** 18040003
Geographic Identifier Big Break **USGS Topo Quad** Brentwood, CA
Project Status Planning Stage **Project Type** Restoration
Project Status Description The first phase of this project, the development of a reach assessment and modification concepts was completed - July 2003. The second phase (detailed engineering and environmental plans) for which NHI received a second NOAA-AR award, is expected to be completed summer of 2004.

Landmark Lower Marsh Creek

Number of Volunteers

Volunteer Hours

Volunteer Description

Proposed Project? N

Project Closed?

FY Completed

Habitat Information

Type	Acres Created	Acres Re-established	Acres Rehabilitated	Acres Enhanced	Acres Protected	Stream Miles	# Plants/ Animals
stream/river channel							

Species Information

Commonname	Genus	Species	Population Name	NMFS Status	Species Type
Salmon, chinook	<i>Oncorhynchus</i>	<i>tshawytscha</i>	Central Valley, fall/late fall-run	Candidate	animal
Trout, steelhead	<i>Oncorhynchus</i>	<i>mykiss</i>	California Central Valley	Threatened	animal

Partners

American Rivers
California Department of Water Resources
Delta Science Center

Restoration Techniques

culvert removal

Contacts

James Robins
 Resource Ecologist
 Natural Heritage Institute
 2140 Shattuck Avenue, 5th Floor

David Landsman
 Restoration Ecologist
 NOAA Fisheries
 777 Sonoma Ave., Rm 325

Berkeley, CA 94704

Phone: 510-644-2900

Fax: 510-644-4428
 Local

Santa Rosa, CA 95404

Phone: 707-578-8518

Fax: 707-578-3435

David.Landsman@noaa.gov

NOAA

NOAA Involvement

source of funding

Monitoring Information

Characteristic	Type
Additional Info	

Funding Information

Funding Mechanism	FY Awarded	NOAA Contribution	Partnership Contribution	Total Partnership Contribution
American Rivers	2002	\$6,000	\$0	\$6,000
American Rivers	2004	\$22,000	\$0	\$22,000
TOTALS		\$28,000	\$0	\$28,000

Other Non-Federal \$	\$27,970	Other Federal \$	\$0	Total Project Cost	\$55,970
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Funding Recipient Natural Heritage Institute

Funding Comments \$6000 Non-federal match for the AR 2002 award.
\$21,970 Non-federal match for the AR 2004 award.
These match amounts should be verified.

Project Abstract

The NOAA Community-based Restoration Program partnered with American Rivers to fund two phases of the Marsh Creek Reach Assessment and Dam Removal Design. The first phase (reach assessment and concept development) was completed by the Natural Heritage Institute (NHI) in summer of 2003 and involved the development of a set of three alternative designs for modifying the lower Marsh Creek drop-structure. During the second phase, NHI will develop detailed engineering and environmental plans and will seek to obtain environmental permits. This second phase is expected to be completed during summer 2004. The drop-structure is currently a migration barrier to fall-run Central Valley Chinook Salmon (candidate for federal listing) and threatened Central Valley Steelhead. Recent studies have observed adult fall-run chinook below the drop structure. If implemented, this project would allow for passage of anadromous fish for seven miles above the drop structure on Marsh Creek and for three miles on Sand Creek, a tributary to Marsh Creek. Habitat above the drop structure includes potential spawning and rearing areas.

The alternative designs were developed in conjunction with other local groups, including the Delta Science Center, the California Department of Water Resources, American Rivers, City of Brentwood, Contra Costa County Flood Control and Water Conservation District, Marsh Creek Watershed Planning Group, and the Natural Resource Conservation Service. These groups will also participate in the second phase of this project.